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4. The Planning Ministry has ordered research in transmission on wave lengths of 25, 10 and 3 cms. Test transmissions are to be made between the OSW test tower, which is in the factory area, and Golm near Zossen, where there is a Post Office radio station, and a subsidiary transmitter for the Berliner Rundfunk. The transmitters and receivers are being designed and manufactured in the OSW. Those for 25 cms. waves are already on test. Those for 10 cms. will be ready in July, and for 3 cms. in October. The transmitter tube for the last is lacking, and a "Leistungs-Klystron" for $1\frac{1}{2}$ watt is being developed for this purpose.
5. The German Directorate of the OSW has been instructed by the Russians to draw up plans for the ten-fold expansion of the capacity of the factory. A capacity of 350,000 radio tubes, 50,000 special tubes and 5,000 Kinescopes per month is planned. The Germans are skeptical about the possibility of fulfilling such a plan, partly because of the difficulty of obtaining the machines required and because of the inadequacy of floor space, but mainly because of the lack of suitable trained technicians to operate the new machines.
6. The Russians have ordered the plant to start work on the design and manufacture of home television receivers. Progress is likely to be slow because of the complete lack of experience in the factory in this field.
7. Short descriptions of some of the research models of OSW tubes follow:
- a. L.H.S. 1000 (see para 3).
 - b. OSW 2727 A metal-ceramic improvement on the L.D. 12-6 cms., 150 mm.
 - c. OSW 2729 New, inexpensive, gas-filled transmitting tetrode, designed to replace the T.S. 41 in therapeutic apparatus. Siemens made a similar tube during the war.
 - d. OSW 2730 New 1 kw V.H.F. (1 meter) transmitting tube for use in television transmitters and police V.H.F. sets. Work is also in progress on a 10 kw V.H.F. (1 meter) transmitting tube for the Ministry of Posts and Telegraphs.
 - e. OSW 3123 (R.S. 720). 10 kw short wave tube. The tube factory in Erfurt has been attempting to make this tube since 1946, but has been unsuccessful, since only 5 percent of the tubes have passed the tests, and these are serviceable for 30 - 40 hours only. The OSW has now been asked to manufacture them.
 - f. Leistungs-Klystron. 3 cms., 1.5 watt. Two chambers if possible, three if necessary. (See para 4).
 - g. Bildröhren (Kinescopes) A new, so-called decimeter wave Kinescope with "Hohlrohrleitung", and a 50-mm. screen diameter using "E-waves" only, is not 40 percent complete. Research is being directed by Dr. Hachenberg. A single-turn Kinescope for the analysis of impulses of large amperages is under design.

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